Climate Action Plan & Greenhouse Gas Inventory Overview

KICKOFF MEETING – 2/1/2012

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Minneapolis Sustainability Program Coordinator

Agenda

1. Review Climate Action Plan Update
2. Review Updated Community Greenhouse Gas Inventory
3. Get your feedback!

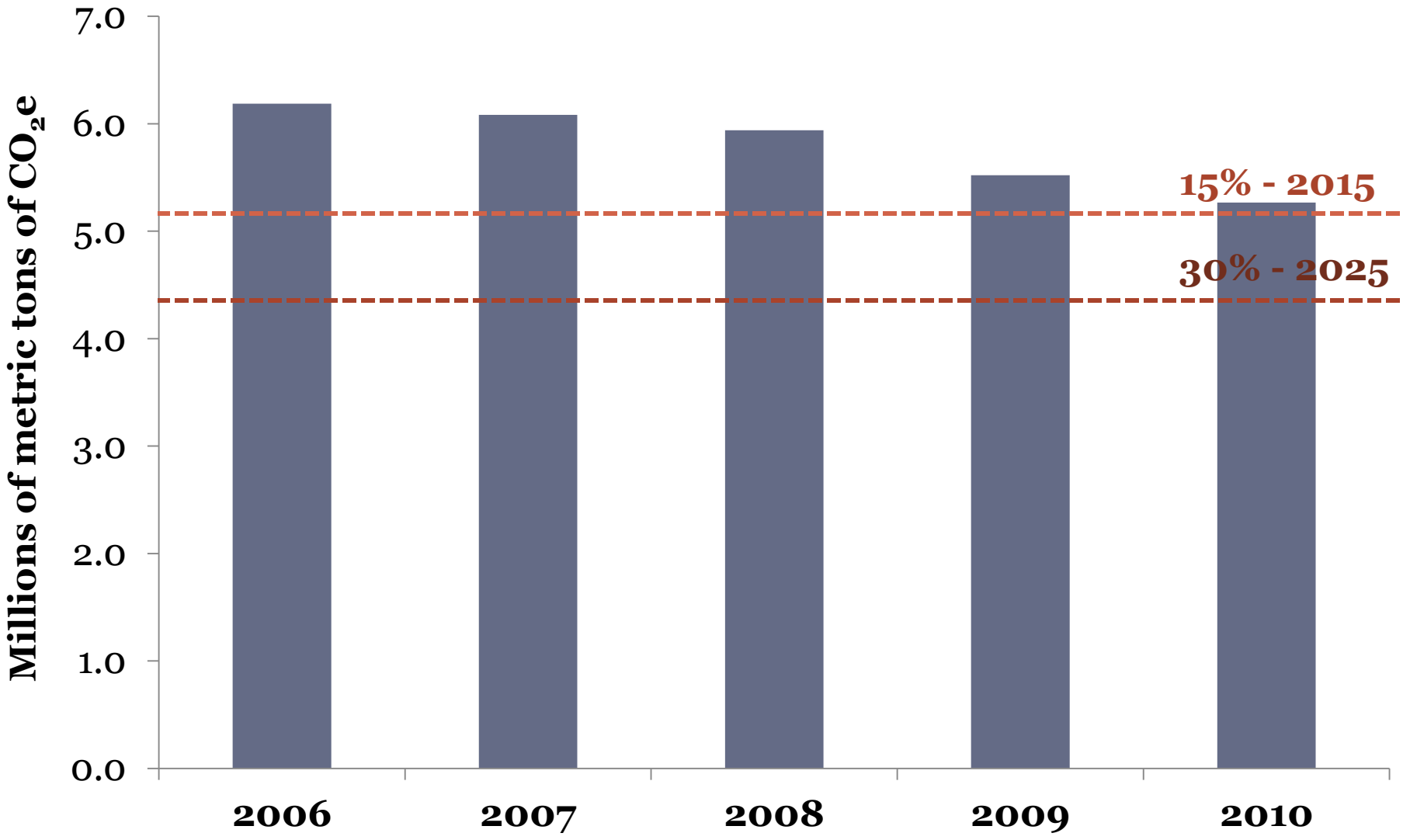
Updating the Climate Action Plan

- This effort is in response to adopted city goals and specific targets for greenhouse gas emissions reduction
- Community greenhouse gas emissions inventory provides a benchmark from which to work
- Final product: **a recommended list of strategies from each focus area that can guide Minneapolis towards our emissions reduction targets**

Policy Background

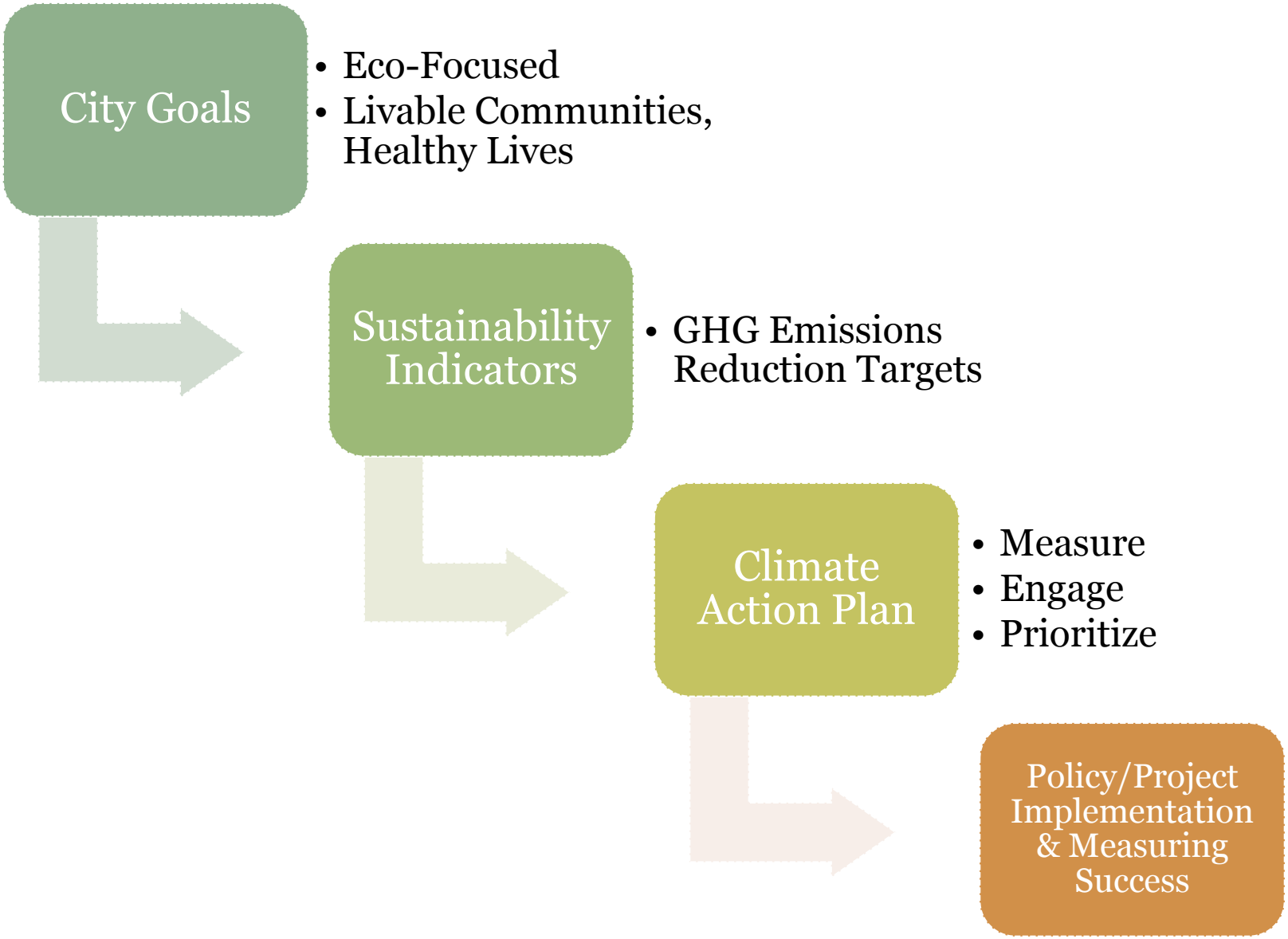
- **1993**: Adopted Mpls/St Paul CO_2 Reduction Project
- **2003**: Greenhouse gas reduction target in Sustainability Indicators
- **2005**: Mayor Rybak signs US Conference of Mayors Climate Protection Agreement
- **2007**: State of Minnesota Next Generation Energy Act
- **2008**: GHG integrated into the Minneapolis Comprehensive Plan & GHG inventory updated
- **2010**: City Council adopted Goals & Strategic Directions, including an Eco-Focused City
- **2012**: City Council updated greenhouse gas emissions target in Sustainability Indicators

Minneapolis Greenhouse Gas Emissions Reduction Targets



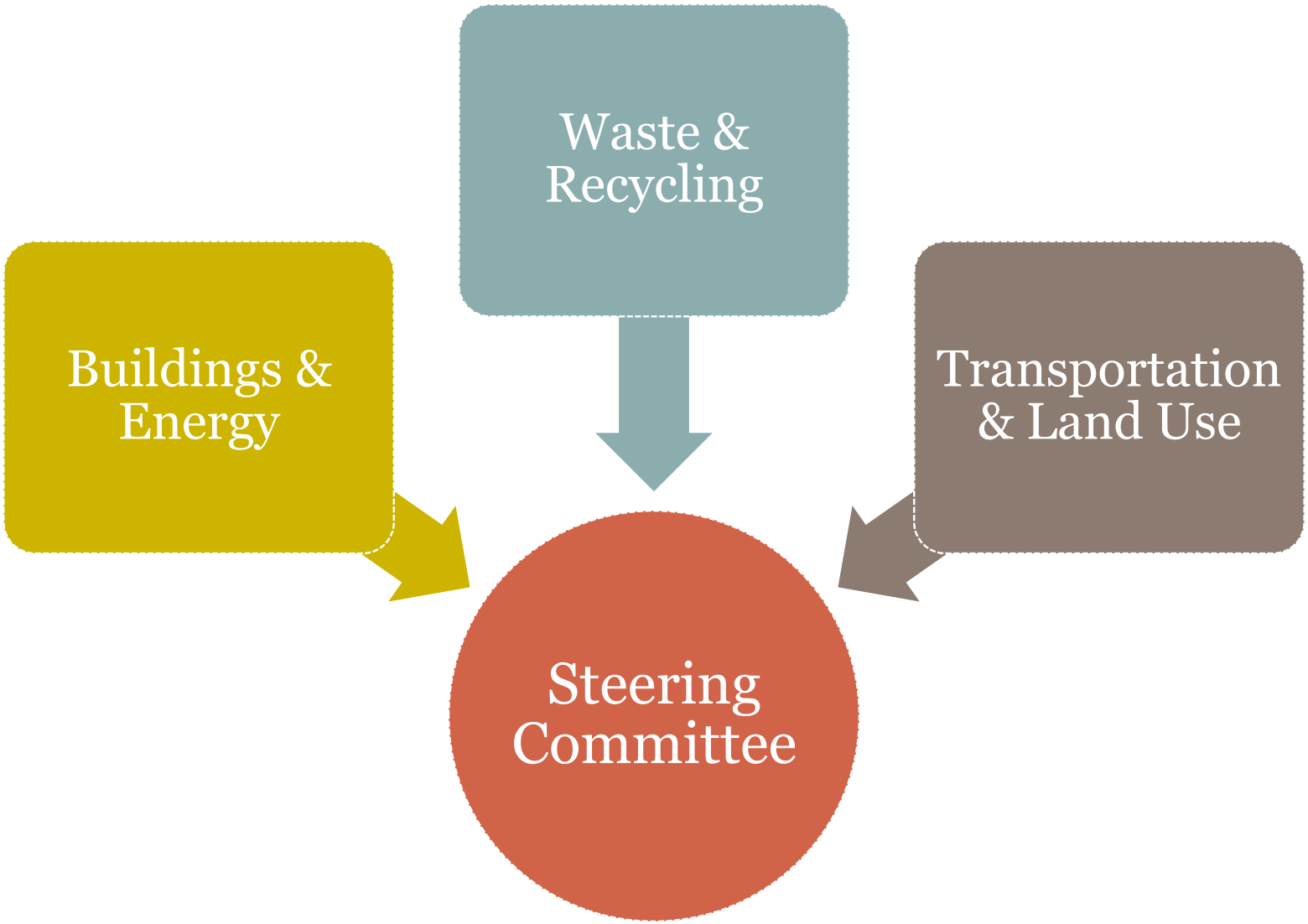
Why a plan for Minneapolis?

- To respond to State and City adopted targets for greenhouse gas emissions reduction
- The benefits of strong & early action far outweigh the economic costs of not acting
- Local action can have an impact
- Climate action will bring many co-benefits, such as cleaner air & water, improved health outcomes, and livability


City Goals
• Eco-Focused
• Livable Communities, Healthy Lives
Sustainability Indicators
• GHG Emissions Reduction Targets
Climate Action Plan
• Measure
• Engage
• Prioritize
Policy/Project Implementation & Measuring Success

Stakeholder Input is Critical

1. Community stakeholders have expertise:
    1. Topical
    2. Geographic
    3. Experiential
2. The City of Minneapolis doesn't control all policy tools that impact emissions
3. Build partnerships for implementation


Waste & Recycling
Buildings & Energy
Transportation & Land Use
Steering Committee

Outcome of the process

- A list of the best strategies for emissions reduction prioritized by:
  - Emissions reduction potential
  - Relative cost
  - Community support
  - Ease of implementation
  - Other co-benefits (health, air quality, traffic congestion, etc)
- Strategy package forwarded to City Council for review in late 2012
- **Implementation of specific strategies will require additional review and approval by the City Council and additional stakeholder input**

Opportunities for Input

- Request a presentation for your group/organization
- Respond to the survey
- Send us your comments directly
- Attend a workshop
- Review the final document during the public comment period

sustainability@minneapolismn.gov

http://www.minneapolismn.gov/sustainability/climate

Community Greenhouse Gas Emissions Inventory

The inventory includes emissions from:

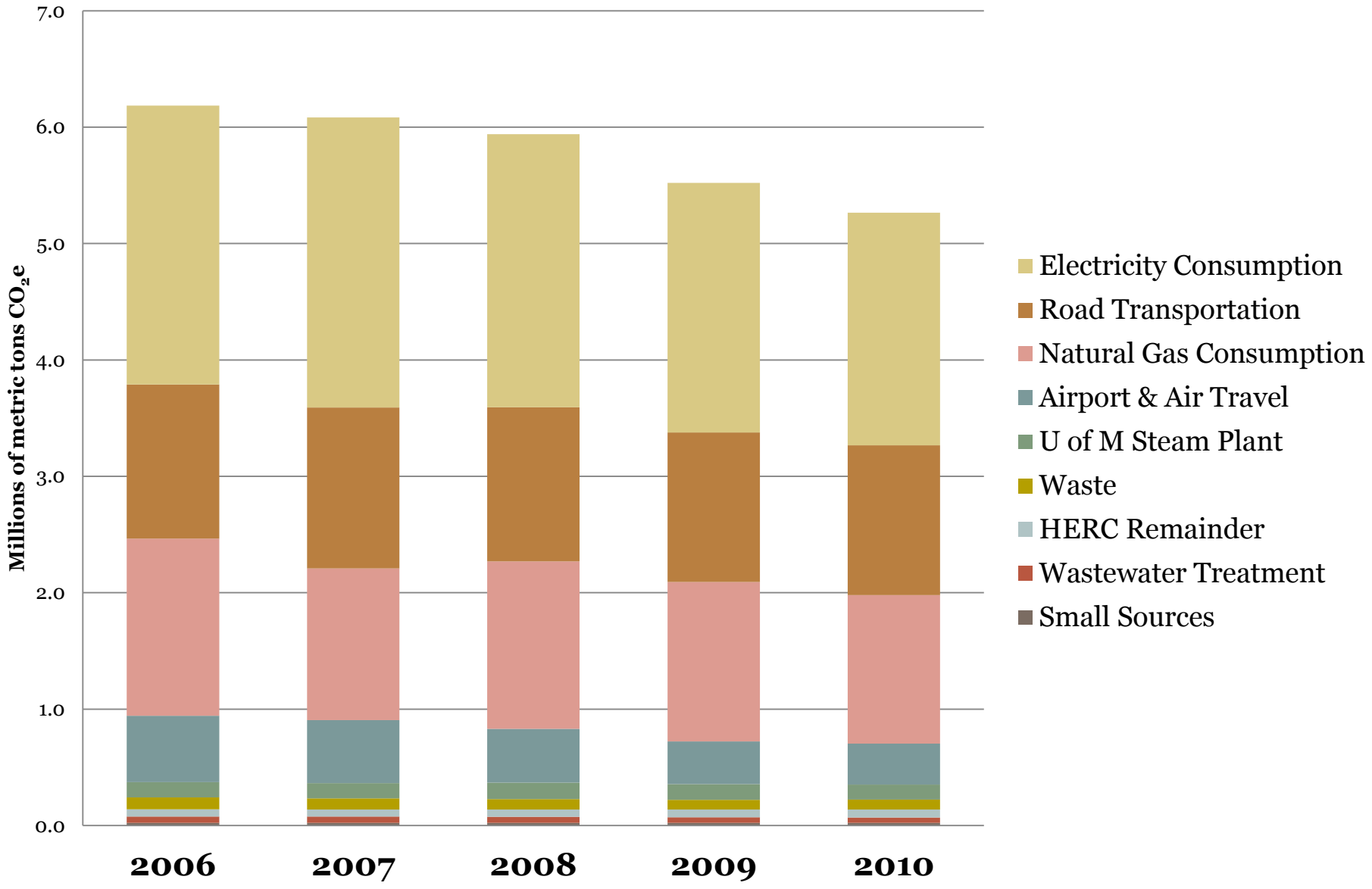
- Electricity consumption
- Natural gas consumption
- Vehicle transportation within city boundaries
- Point sources – HERC, U of M plant, Xcel Riverside Plant, fuel oil & diesel backup/heating
- Rail and barge traffic
- Wastewater treatment (Mpls portion)
- Airport operations and departing flights (Mpls portion)
- Processing and disposal of waste from Mpls

The inventory does NOT include emissions from:

- Products consumed locally but produced elsewhere
- Upstream fuel extraction, refining, and transportation prior to use for generation or combustion
- The portion of vehicle trips coming to or going from Minneapolis that occur outside of the city's borders
- Industrial processes (excluding energy production) occurring within the city's boundaries

Minneapolis GHG Inventory by Category

January 2012 Preliminary Results



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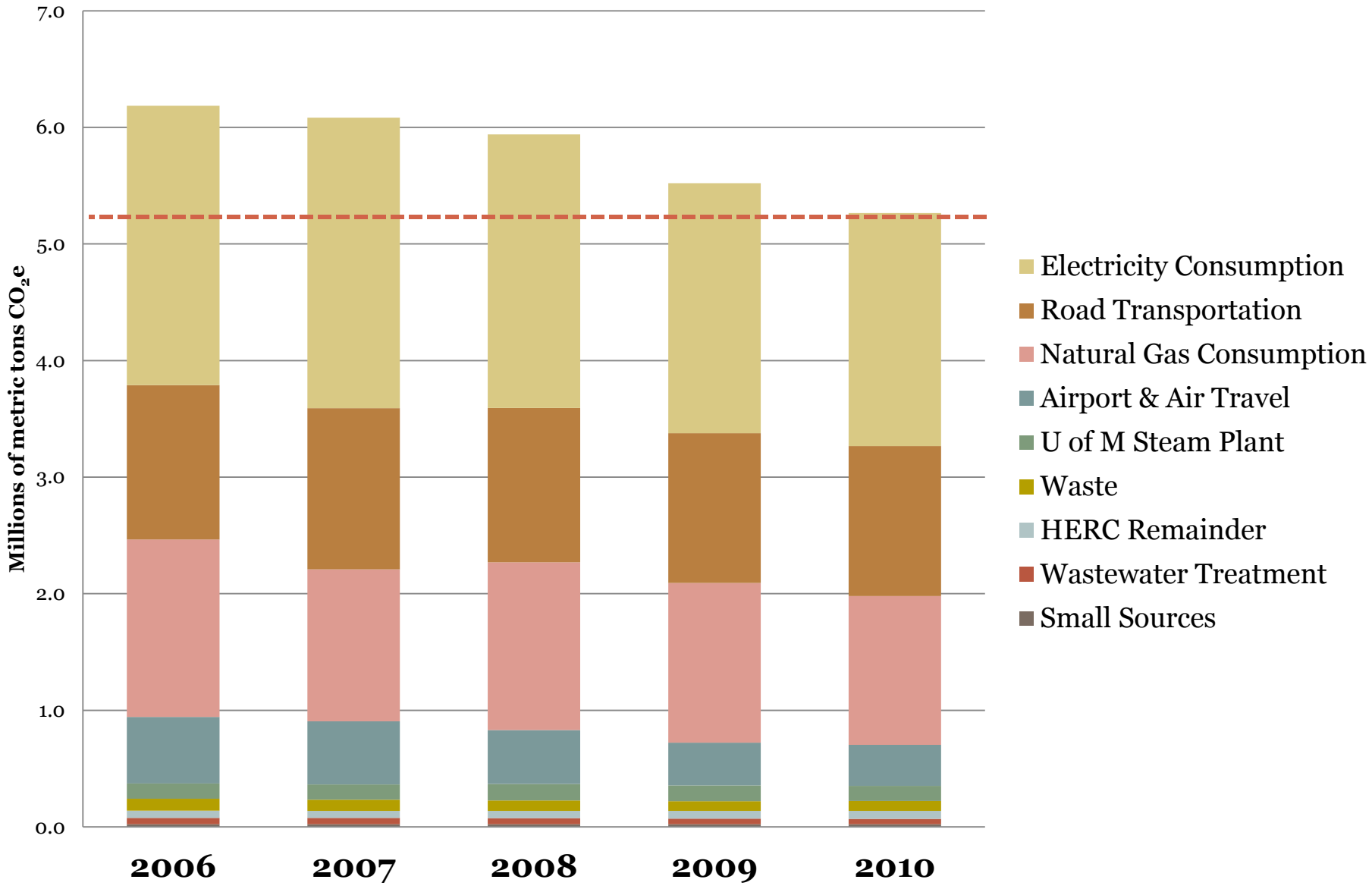

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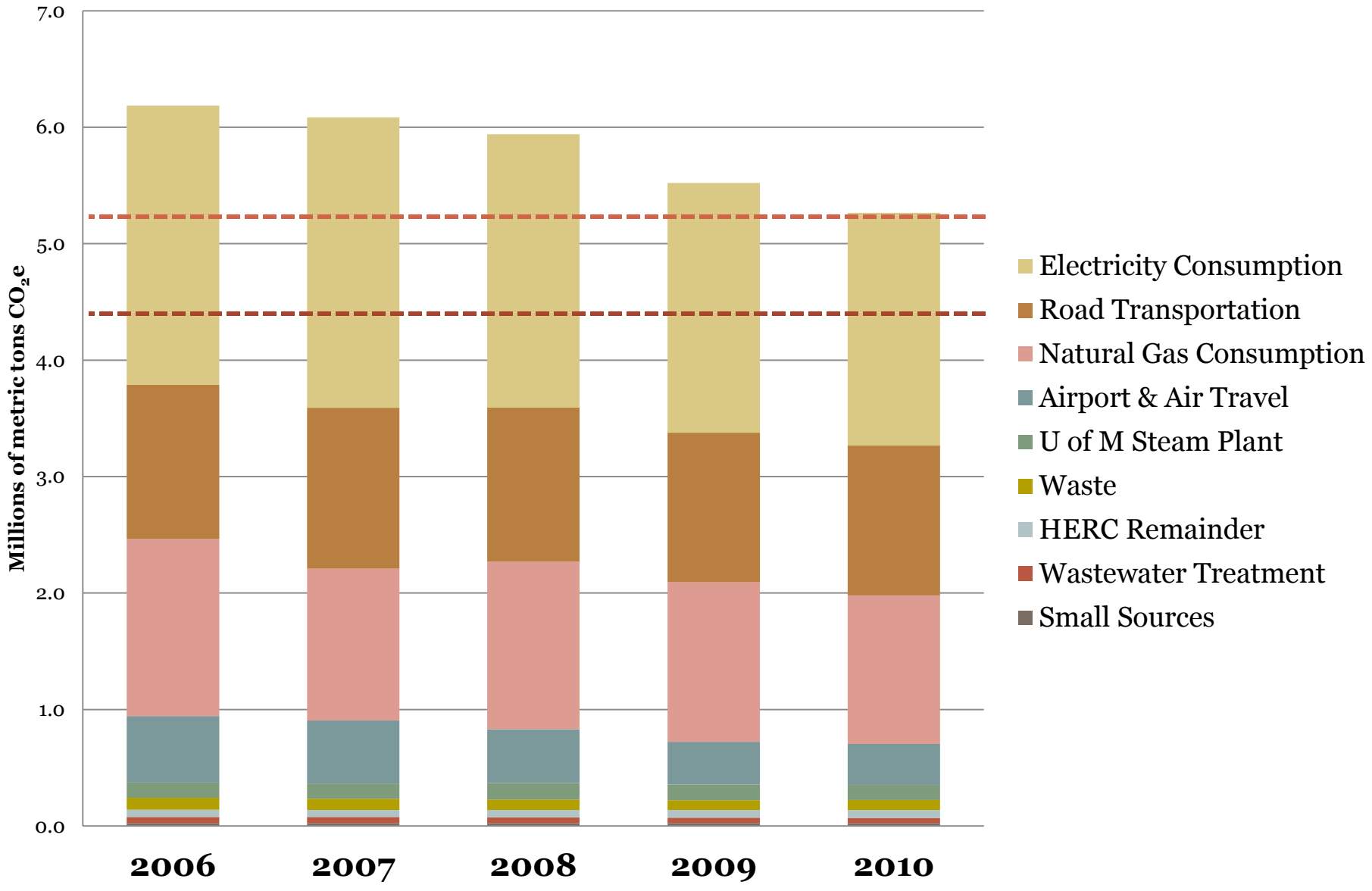
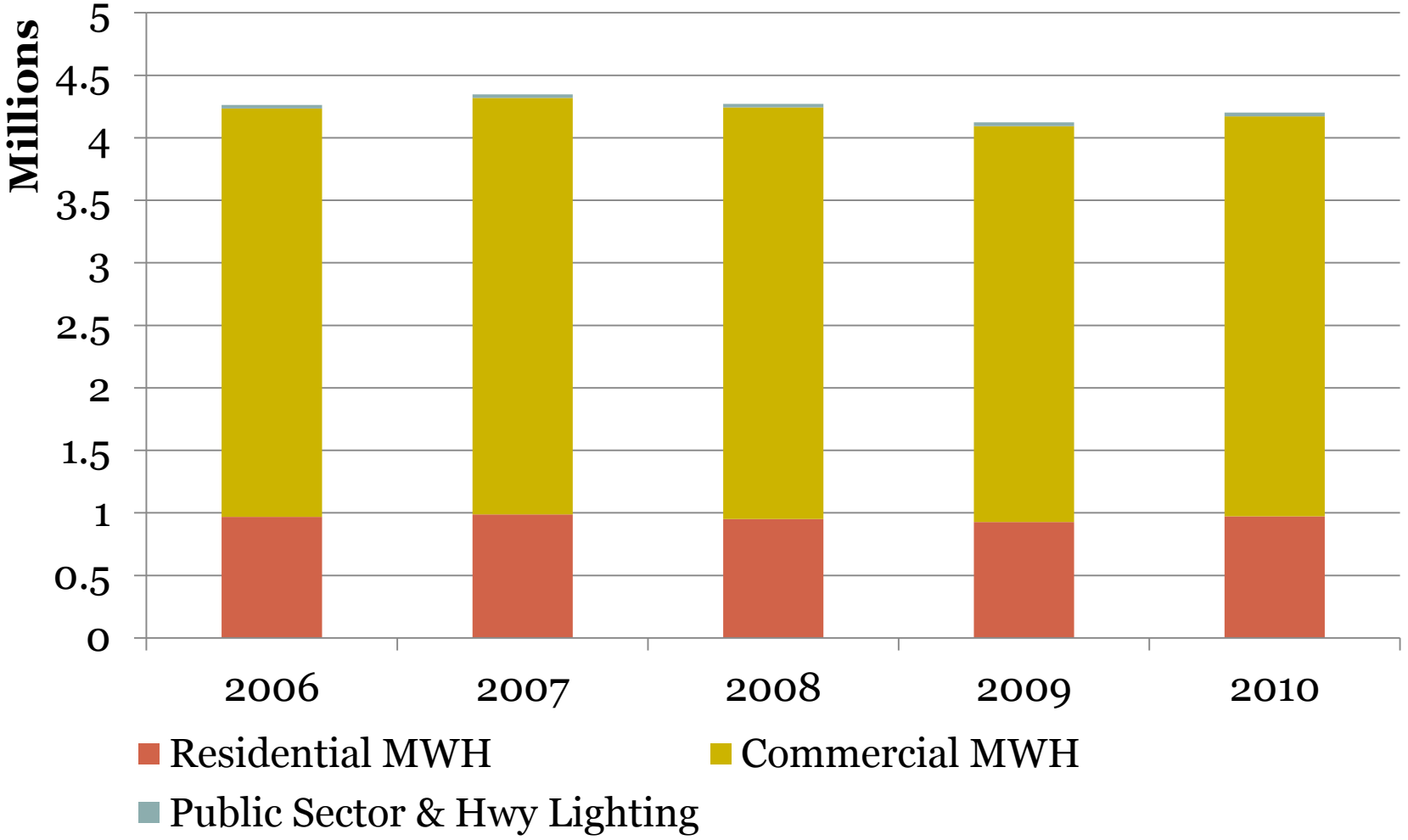
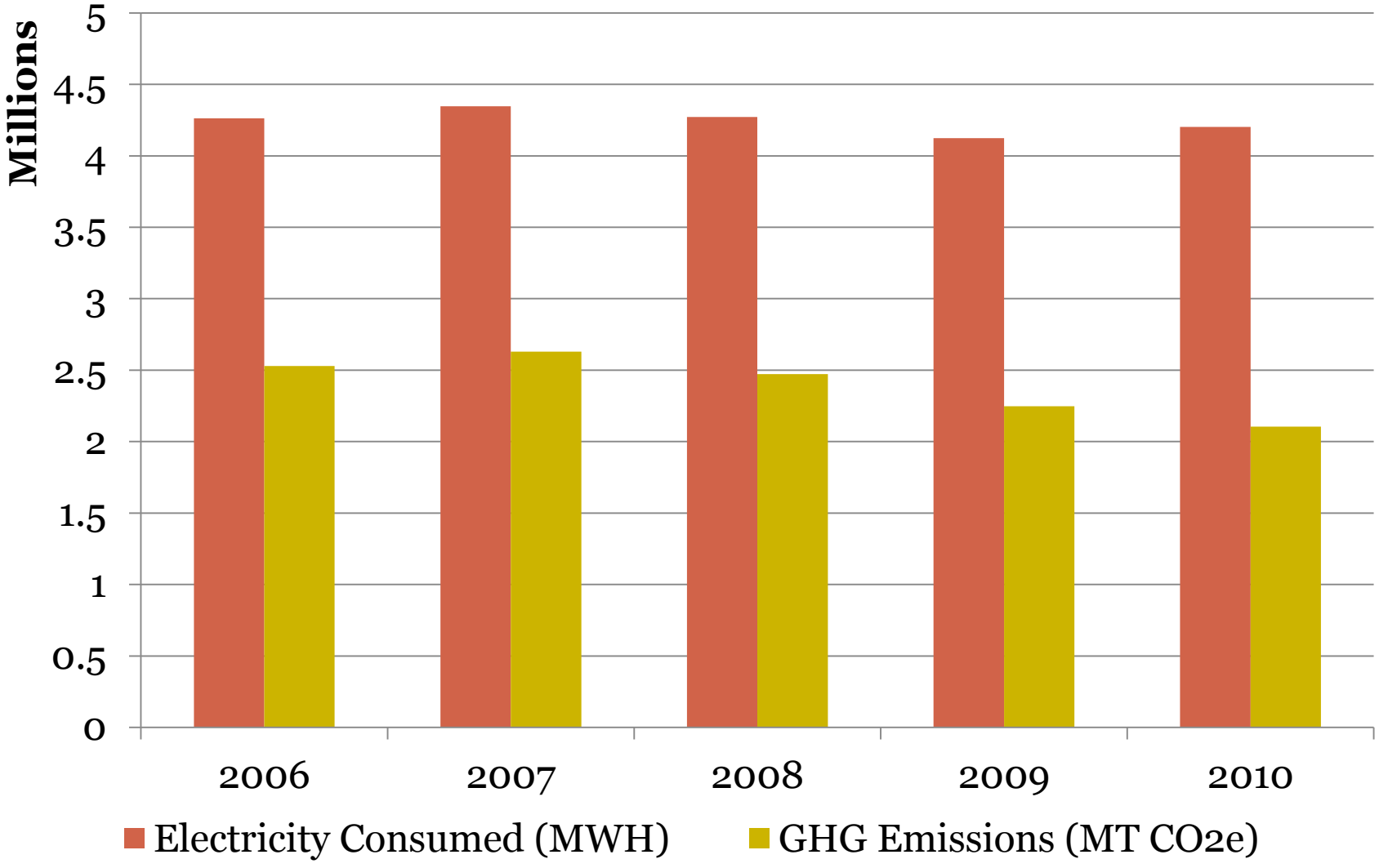


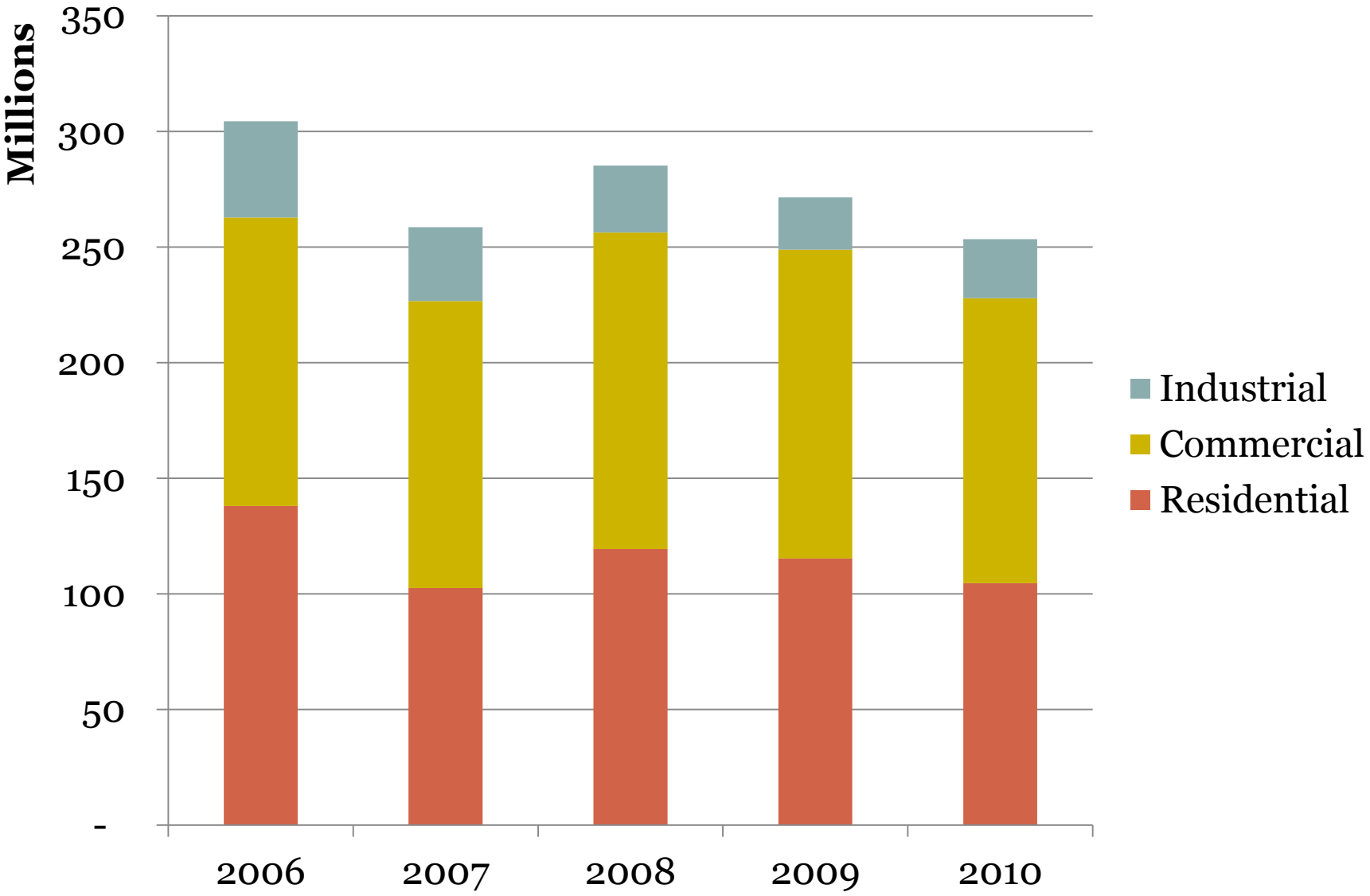
Minneapolis Electricity Consumption (MWH)



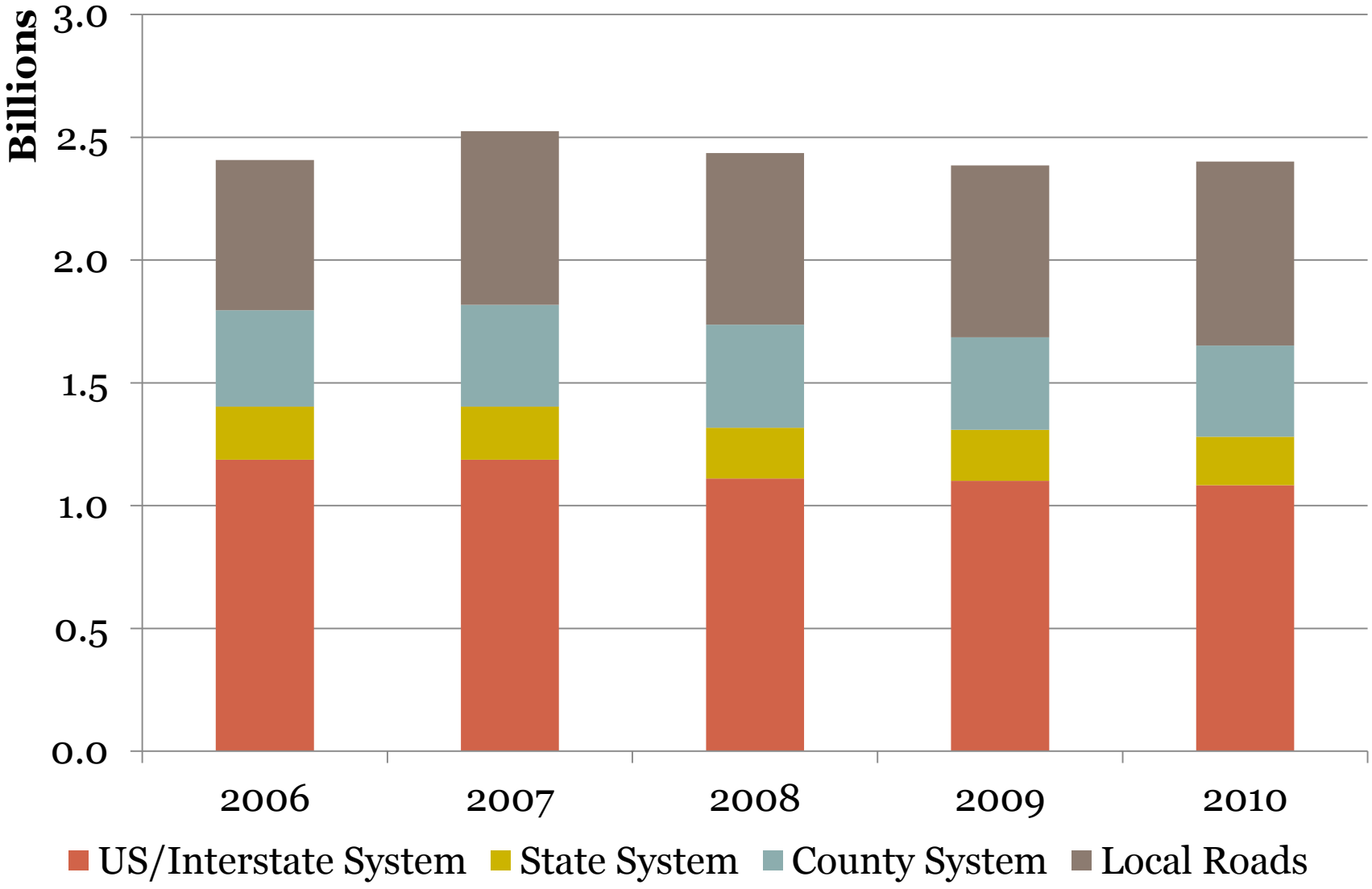
Total Electricity Consumed and Greenhouse Gas Emissions

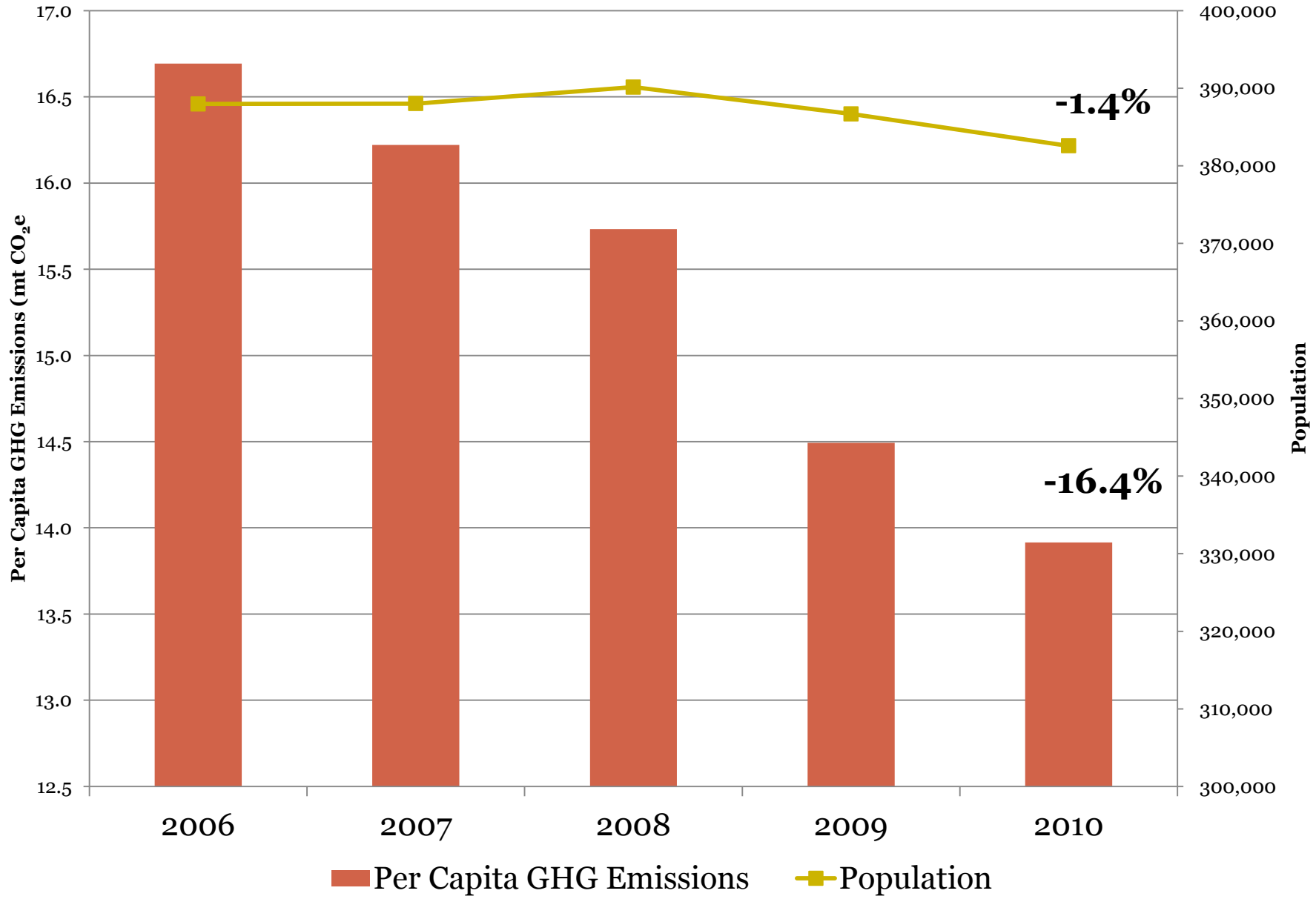


Natural Gas Consumption (Therms)



Vehicle Miles Traveled in Minneapolis




17.0
16.5
16.0
15.5
15.0
14.5
14.0
13.5
13.0
12.5
Per Capita GHG Emissions (mt CO_2e
400,000
390,000
380,000
370,000
360,000
350,000
340,000
330,000
320,000
310,000
300,000
Population
-1.4%
-16.4%
2006
2007
2008
2009
2010
Per Capita GHG Emissions
Population

Inventory Results

- Emissions are down close to 15% from 2006
  - Electricity
  - Natural Gas
- Per capita emissions are down 16% from 2006
- Employment is down significantly (4.5%) from 2006
- We may not see a significant amount of cleaner energy added to the electricity mix soon
- Economic recovery may mean increased energy use

Next Steps

- Final Community Greenhouse Gas Report will be released in the next few weeks
- Convene the Working Groups late February
- Begin outreach to targeted stakeholder groups

What do you think is the **greatest risk** posed by climate change to the city of Minneapolis?

What do you think is the **greatest opportunity** to address climate change in Minneapolis?

Contact information

http://www.minneapolismn.gov/sustainability/climate

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